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**1** [Specification and dialogue control of visual interaction through visual rewriting systems](#)



P. Bottoni, M. F. Costabile, P. Mussio  
November 1999 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 21 Issue 6

**Publisher:** ACM

Full text available: [pdf\(886.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 59, Citation Count: 7

Computers are increasingly being seen not only as computing tools but more so as communication tools, thus placing special emphasis on human-computer interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged between ...

**Keyw ords:** control automaton, dialogue control, visual languages


## 2 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 639, Citation Count: 21

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

Keyw ords: HTML, WWW, application, development, intranet, modeling


## 3 Practical guidelines for the readability of IT-architecture diagrams



Henk Koning, Claire Dormann, Hans van Vliet

October 2002 SIGDOC '02: Proceedings of the 20th annual international conference on Computer documentation

**Publisher:** ACM

Full text available:  [pdf\(337.71 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 126, Citation Count: 3

This paper presents the work done to establish guidelines for the creation of readable IT-architecture diagrams and gives some examples of guidelines and some examples of improved diagrams. These guidelines are meant to assist practicing IT-architects ...

Keyw ords: architecture, color, diagrams, form, graphics, guidelines, hierarchy, layout, readability, size, text, visualization, width


## 4 Corrigenda: a hierarchy-aware approach to faceted classification of object-oriented components



E. Damiani, M. G. Fugini, C. Bellettini

October 1999 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(310.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 75, Citation Count: 3

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed ...


## 5 A hierarchy-aware approach to faceted classification of objected-oriented components



E. Damiani, M. G. Fugini, C. Bellettini

July 1999 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(310.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 121, Citation Count: 4

This article presents a hierarchy-aware classification schema for objected-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed ...

**Keywords:** code analysis, component repositories, component retrieval, software reuse, user feedback


## 6 Computing graphical queries over XML data



Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 ACM Transactions on Information Systems (TOIS), Volume 19 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(707.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 86, Citation Count: 11

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be ...

**Keywords:** Document restructuring, graphical query languages, semantics

## 7 Video artifacts for design: bridging the Gap between abstraction and detail



Wendy E. Mackay, Anne V. Ratzer, Paul Janecek

August 2000 DIS '00: Proceedings of the 3rd conference on Designing interactive systems: processes, practices, methods, and techniques

**Publisher:** ACM

Full text available:  [pdf\(704.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 100, Citation Count: 18

Video artifacts help bridge the gap between abstraction and detail in the design process. This paper describes how our use and re-use of video artifacts affected the re-design of a graphical editor for building, simulating, and analyzing Coloured Petri ...


**Keyw ords:** colored petri nets, design abstraction, design process, marking menus, participatory design, scenario-based design, toolglasses, video artifacts, video brainstorming, video prototyping

## 8 Semantics happen: knowledge building in spatial hypertext



Frank Shipman, J. Michael Moore, Preetam Maloor, Haowei Hsieh, Raghu Akkapeddi  
June HYPertext '02: Proceedings of the thirteenth ACM conference on Hypertext  
2002 and hypermedia

**Publisher:** ACM

Full text available:  [pdf\(392.66 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 49, Citation Count: 10

Hypertext represents ideas through chunks of text or other media interconnected by relations, typically navigational links. The similarity to knowledge representations such as frames and semantic nets has led to much effort in using hypertext systems ...


**Keyw ords:** incremental formalization, mixed-initiative dialogs, spatial hypertext, spatial parser, suggestion-based interfaces, visual language

## 9 LIME: A coordination model and middleware supporting mobility of hosts and agents



Amy L. Murphy, Gian Pietro Picco, Gruia-Catalin Roman  
July ACM Transactions on Software Engineering and Methodology (TOSEM),  
2006 Volume 15 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(1.25 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 303, Citation Count: 4

LIME (Linda in a mobile environment) is a model and middleware supporting the development of applications that exhibit the physical mobility of hosts, logical mobility of agents, or both. LIME adopts a coordination perspective inspired by work on the ...

**Keyw ords:** Mobile computing, middleware, tuple spaces


**10** Design and development of data-intensive web sites: The Araneus approach



Paolo Merialdo, Paolo Atzeni, Giansalvatore Mecca

February 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(2.18 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 326, Citation Count: 7

Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and ...

**Keyw ords:** Databases, Internet, WWW, World Wide Web, development


**11** Mnemonic rendering: an image-based approach for exposing hidden changes in dynamic displays



Anastasia Bezerianos, Pierre Dragicevic, Ravin Balakrishnan

October 2006 UI ST '06: Proceedings of the 19th annual ACM symposium on User interface software and technology

**Publisher:** ACM

Full text available:  [pdf\(1.99 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 93, Citation Count: 0

Managing large amounts of dynamic visual information involves understanding changes happening out of the user's sight. In this paper, we show how current software does not adequately support users in this task, and motivate the need for a more general ...

**Keyw ords:** change visualization, mnemonic rendering


**12** Computational schemes for biomimetic sculpture



Brower Hatcher, Karl Aspelund, Andrew Willis, Jasper Speicher, David B. Cooper, Frederic F. Leymarie

April 2005 C&C '05: Proceedings of the 5th conference on Creativity & cognition

**Publisher:** ACM

Full text available:  [pdf\(3.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 54, Citation Count: 0

A prototype system for the automatic evolution of biomimetic structures using structural automata is described and its utility for generating digital sculpture is demonstrated. Sculptures are generated from a primordial shape which is represented in ...


Keyw ords: 3D modeling, 3D shape representation, biomimetic sculpture, deformable surface models, virtual sculpting

### 13 Three dimensional visualization of the World Wide Web



Steve Benford, Ian Taylor, David Brailsford, Boriana Koleva, Mike Craven, Mike Fraser, Gail Reynard, Chris Greenhalgh  
December 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 4es

**Publisher:** ACM

Full text available:  [pdf\(388.64 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 189, Citation Count: 3

### 14 Towards virtualization of user interfaces based on UsiXML



José Pascual Molina Massó, Jean Vanderdonckt, Francisco Montero Simarro, Pascual González López  
March 2005 Web3D '05: Proceedings of the tenth international conference on 3D Web technology

**Publisher:** ACM

Full text available:  [pdf\(1.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 81, Citation Count: 1

A model-based approach is presented for structuring a development process of virtual user interfaces based on UsiXML, a XML-compliant User Interface Description Language. UsiXML provides a Concrete User Interface description that remains independent ...

Keyw ords: User Interface Description Language, UsiXML, XML, abstract user interface, concrete user interface, domain model, graphical user interface, task model, user interface, virtual user interface, virtualization


**15** "Who's in charge here?" communicating across unequal computer platforms



Maria Velez, Marilyn Mantei Tremaine, Aleksandra Sarcevic, Bogdan Dorohonceanu, Allan Krebs, Ivan Marsic

December 2004 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 11 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 90, Citation Count: 0

People use personal data assistants in the field to collect data and to communicate with others both in the field and office. The individual in the office invariably has a laptop or a high-end personal workstation and thus, significantly more computing ...

Key words: Collaboration differences, heterogeneous computing, media effects, mobile computing


**16** Observing and adapting user behavior in navigational 3D interfaces



Augusto Celentano, Fabio Pittarello

May 2004 AVI '04: Proceedings of the working conference on Advanced visual interfaces

**Publisher:** ACM

Full text available:  [pdf\(253.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 148, Citation Count: 0


In a navigation-oriented interaction paradigm, such as desktop, mixed and augmented virtual reality, recognizing the user needs is a valuable improvement, provided that the system is able to correctly anticipate the user actions. Methodologies for adapting ...

**17** Simplified representation of vector fields

Alexandru Telea, Jarke J. van Wijk

October 1999 VIS '99: Proceedings of the conference on Visualization '99: celebrating ten years

**Publisher:** IEEE Computer Society Press

Full text available:  [pdf\(3.54 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 54, Citation Count: 13

Vector field visualization remains a difficult task. Although many local and global visualization methods for vector fields such as flow data exist, they usually require extensive user experience on setting the visualization parameters in order to produce ...


Keyw ords: clustering, flow visualization, simplification

## 18 Semiotic engineering contributions for designing online help systems



Milene Selbach Silveira, Clarisse Sieckenius de Souza, Simone D. J. Barbosa  
October SIGDOC '01: Proceedings of the 19th annual international conference on  
2001 Computer documentation

**Publisher:** ACM

Full text available:  [pdf\(302.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 52, Citation Count: 2

Our goal is to improve the content of help systems and provide better access to it, by giving users opportunities to signal breakdowns during interaction. To this end, we use a semiotic engineering model that explores both direct and indirect messages ...


Keyw ords: communicability, online help systems, semiotic engineering

## 19 Post-WIMP user interfaces



Andries van Dam  
February Communications of the ACM, Volume 40 Issue 2  
1997

**Publisher:** ACM

Full text available:  [pdf\(466.58 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 260, Citation Count: 14

## 20 Computers and modern art: digital art museum



Mike King  
October 2002 C&C '02: Proceedings of the 4th conference on Creativity & cognition

**Publisher:** ACM

Full text available:  [pdf\(203.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 133, Citation Count: 0



This paper focuses on the relationship between fine art movements in the 20th C and the pioneers of digital art from 1956 to 1986. The research is part of a project called Digital Art Museum, which is an electronic archive devoted to the history and ...

Keyw ords: Constructivism, Cubism, Modernism, art movements, computer art, digital art, digital art museum, fine art

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